New Methods for Speedy Divot Repair (Bentgrass)

CDGA Turfgrass Program

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Introduction

In golf, certain clubs strike the ball on a downward path. A divot is the resultant injury. Divots are a normal part of the game. Divot repair is used to maintain surface playability given the USGA's "Ball played as it lies." rule.

Why is Divot Repair Important?

- 1. Divot repair results in a level surface; allows normal ball lie and roll.
- 2. Unrepaired divots will take weeks, even months, to recover.
- 3. Divot repair of highly maintained surfaces is good golfer etiquette.

Traditional? Sand



Newer? Compost + Seed



Season effects? Divot recovery is similar if seed is added.



Compost

plus plu Bent Fe



plus

Bent



us 8-1-1 escue Mix



plus plus
Bent Fescue
Seed Seed

How was the study conducted?

Location: 'Pirahna' creeping bentgrass tee, Bob Berry Sunshine Course

Divot Mixes: 1) Sand, 2) Compost, 3) 8-1-1 Mix

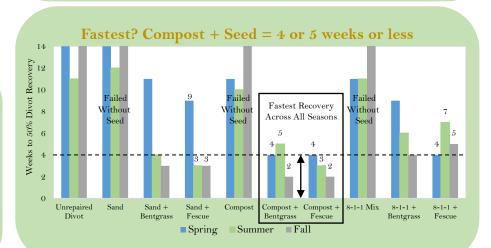
Seed: 'Leeward' Chewings Fescue and 'Pirahna' Creeping Bentgrass

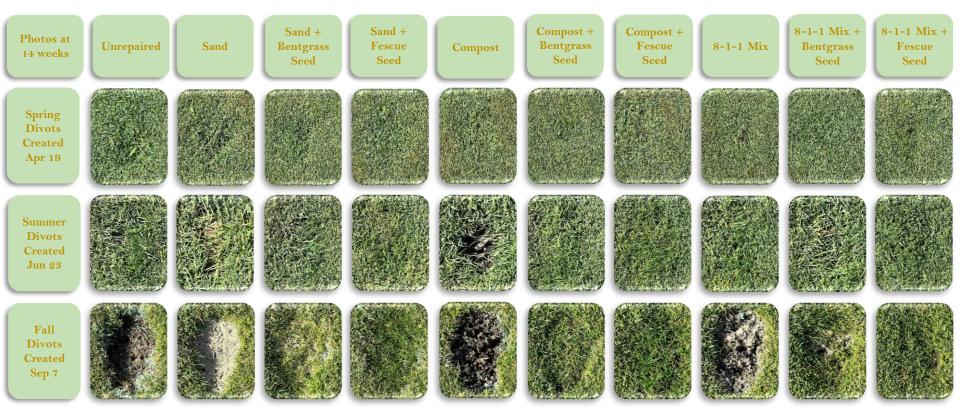
Divot Creation Dates: Spring (Apr 19), Summer (Jun 23), Fall (Sep 7)

Duration: A total of 14 weeks allowed for recovery in each of 3 seasons

Additional benefits? Compost is rich in P and K nutrients.

Divot Mix	pН	OM Organic Matter (%)	P Phosphorous (ppm)	K Potassium (ppm)	Sand (%)	Silt (%)	Clay (%)
Sand	8.8	0.2	3	26	98	2	0
Compost	8.1	33.8	3048	441	-	-	-
8-1-1 Mix	8.1	0.5	21	177	98	2	0





Recommendations – Consider Compost & Use Seed in Divot Mixes

- Compost + Fescue Seed was the fastest and most consistent divot mix with divot recovery ≤ 4 weeks.
- Compost + Bentgrass Seed was a fast and consistent divot mix with divot recovery ≤ 5 weeks.
- Sand + Bentgrass Seed or Sand + Fescue Seed were slow in the spring with divot recovery \leq 9-11 weeks.
- 8-1-1 Mix + Bent Seed or 8-1-1 Mix + Fescue Seed were inconsistent with divot recovery ranging 4-9 weeks.
- Chewings Fescue Seed is large and quick to germinate; A non-invasive alternative for creeping bentgrass tees.
- Chewings fescue is a nurse grass that does not spread; Reduces risk of contamination into bluegrass roughs.